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Docket No.: 10165-022-999
Serial No.: 10/612,665
Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs



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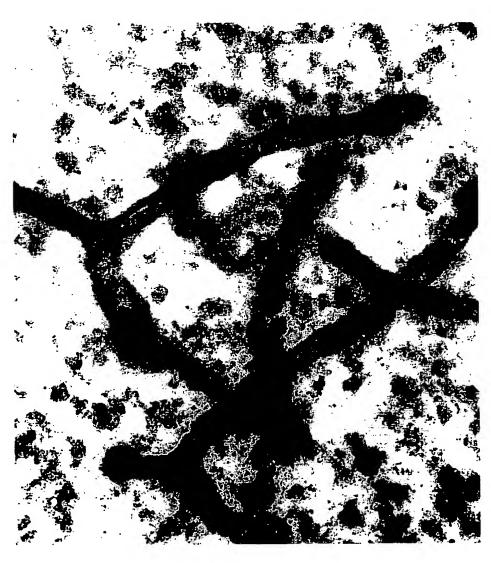


FIG.2

Docket No.: 10165-022-999

Serial No.: 10/612,665
Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs



FIG.3

Docket No.: 10165-022-999
Serial No.: 10/612,665
Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs





FIG.1

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Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

Docket No.: 10165-022-999

RAT CSF EPO CONCENTRATION AFTER PARENTERAL rH-EPO ADMINISTRATION (5000 u/kg-bw I.P.)

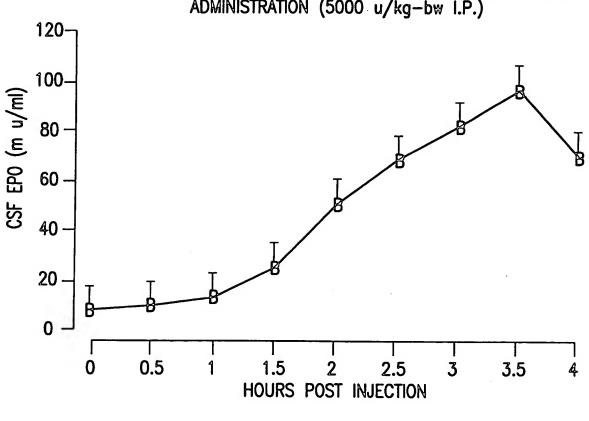


FIG.5

Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

SK-N-SH NEUROBLASTOMA CELLS NEUROPROTECTION ASSAY (AGAINST ROTENONE)

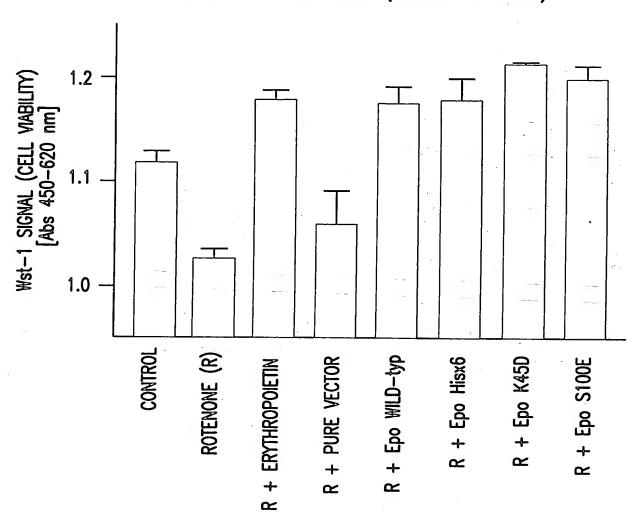


FIG.6A

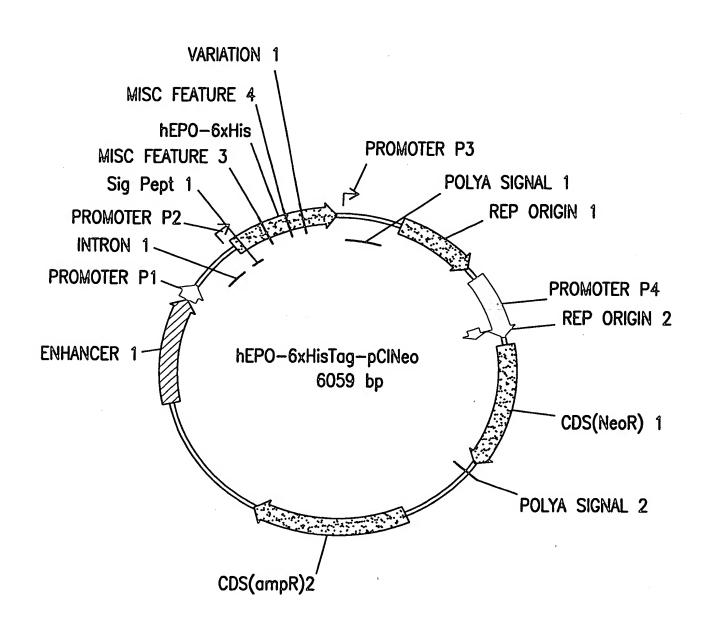


FIG.6B

Docket No.: 10165-022-999
Serial No.: 10/612,665
Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and

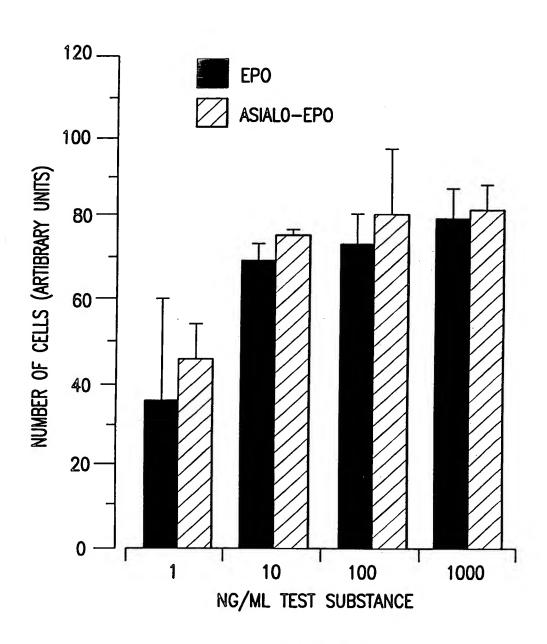
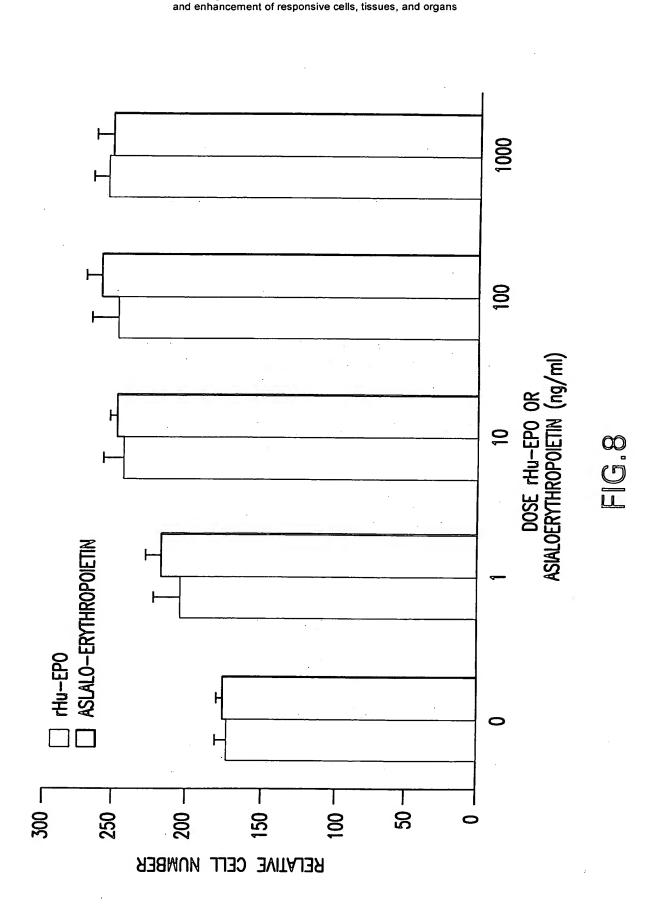


FIG.7



Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration,

Docket No.: 10165-022-999 Serial No.: 10/612,665

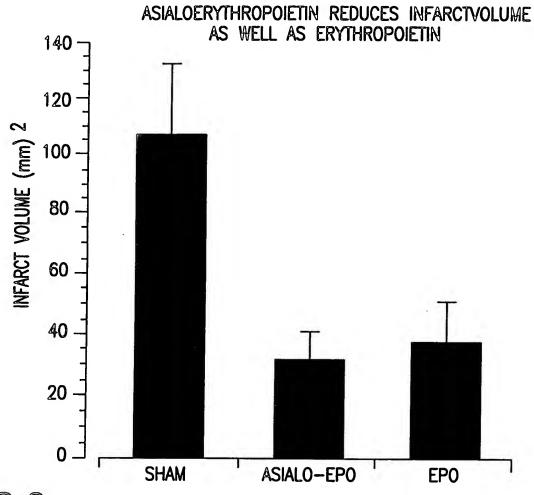


FIG.9

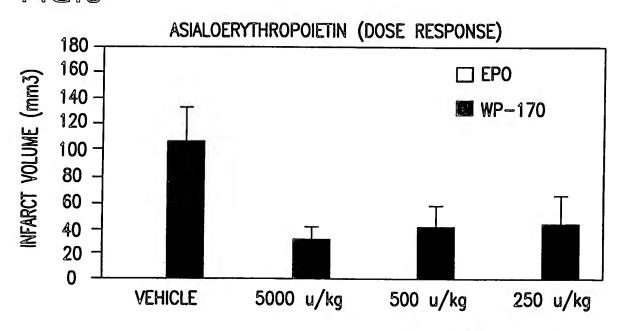
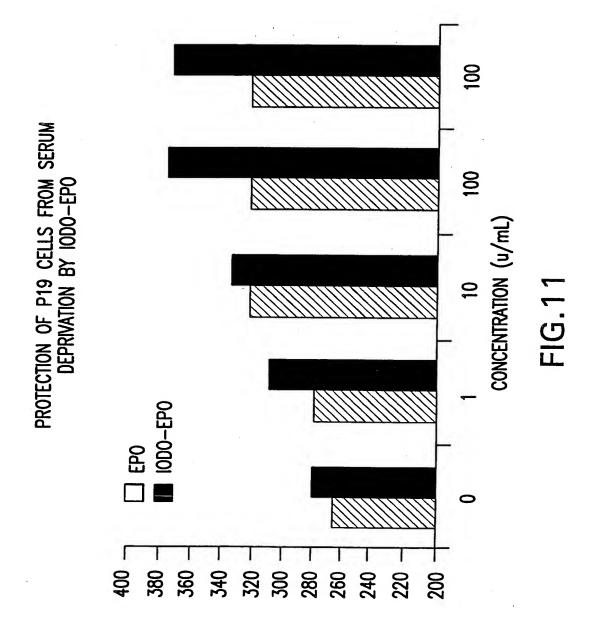
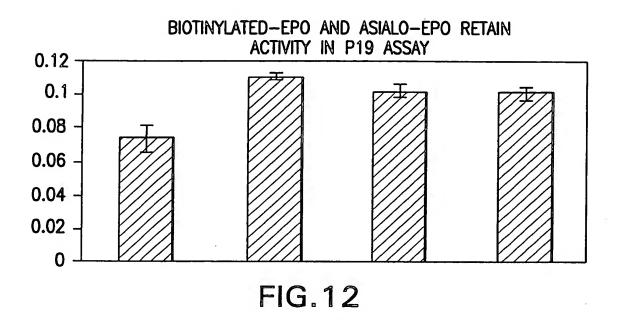


FIG. 10

n FOR EACH GROUP IS GREATER THAN OR EQUAL TO 4







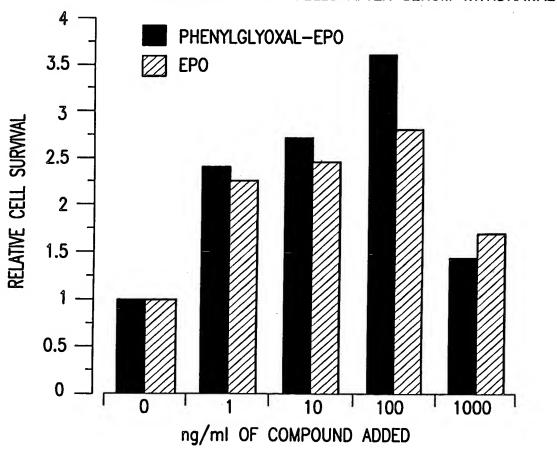
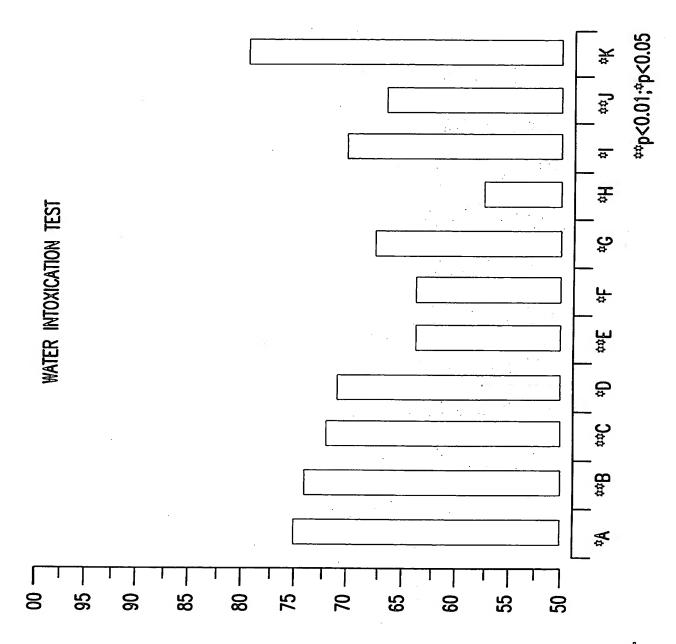


FIG.13



Docket No.: 10165-022-999
Serial No.: 10/612,665
Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

ERYTHROPOIETIN IMPROVES CARDIAC FUNCTION IN A HEART ISOLATED FOR TRANSPLANTATION

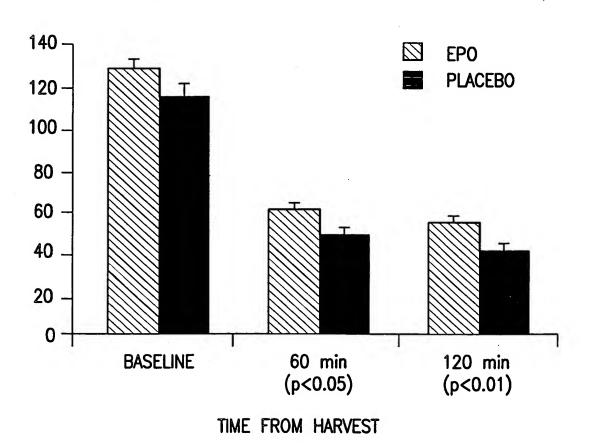


FIG. 15

Docket No.: 10165-022-999
Serial No.: 10/612,665
Inventor(s): Nielsen et al.
Title: Recombinant issue protective cytokines and

Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

RAT HEART 7 DAYS AFTER 30 MINUTES OF ISCHEMIA

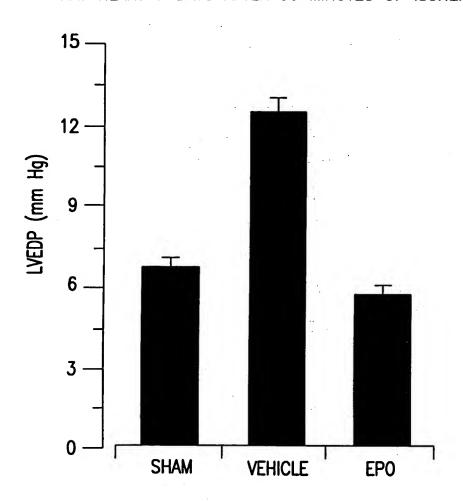


FIG.16

Docket No.: 10165-022-999 Serial No.: 10/612,665 Inventor(s): Nielsen et al. Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs FIG. 170 + EPO @ (vib\V4 8.84) AUTLINDE FIG. 17C (vib\V4 8.84) AUTLIAMA 45 min ISCHEWIA FIG. 17B (vib\V4 8.84) 30UTJAMA FROM RATS SUBJECTED TO 60 MINUTES OF FIG. 17A ПМЕ (25 ms/ BASELINE

(vib\V4 8.84) BUTLIAMA

ELECTRORETINOGRAMS FROM RATS SUBJECTED

ELECTRORETINOGRAMS

ELECTRORETINOGRAMS FROM RATS SUBJECTE

ELECTRORETINOGRAMS

Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

RETINOGRAM AMPLITUDE AFTER 60 min. ISCHEMIA

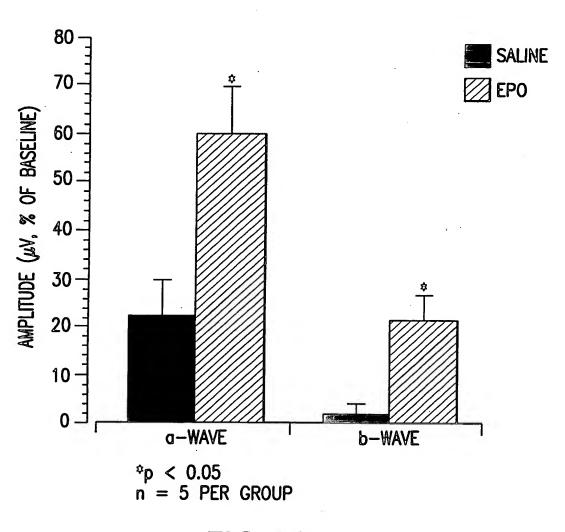
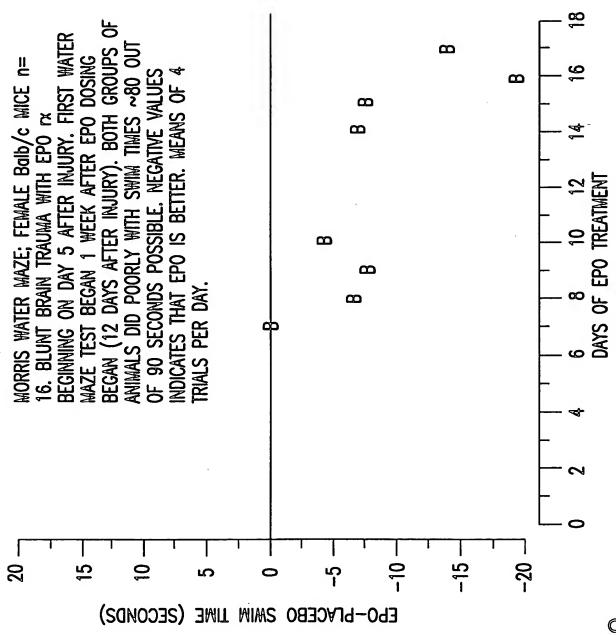
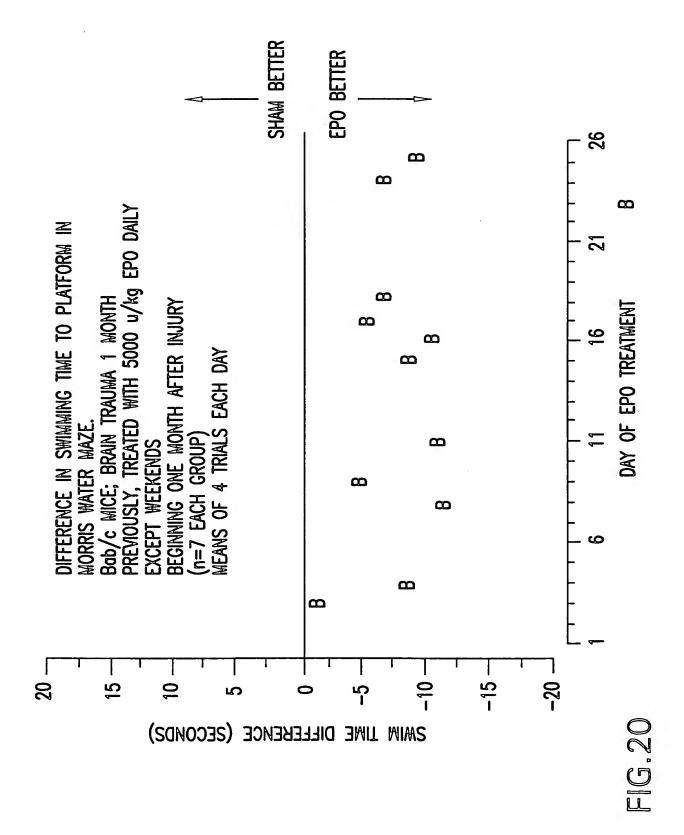


FIG.18



Docket No.: 10165-022-999
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Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and



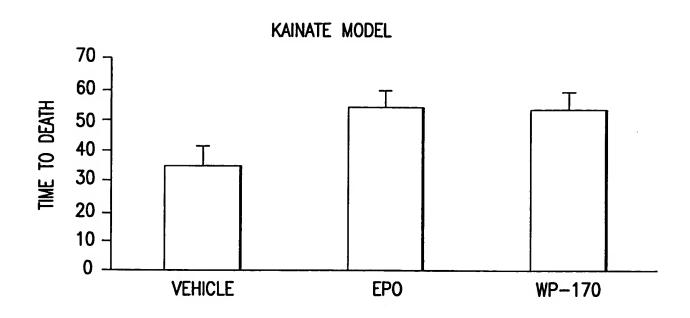


FIG.21

Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

RAT SPINAL CORD COMPRESSION MODEL

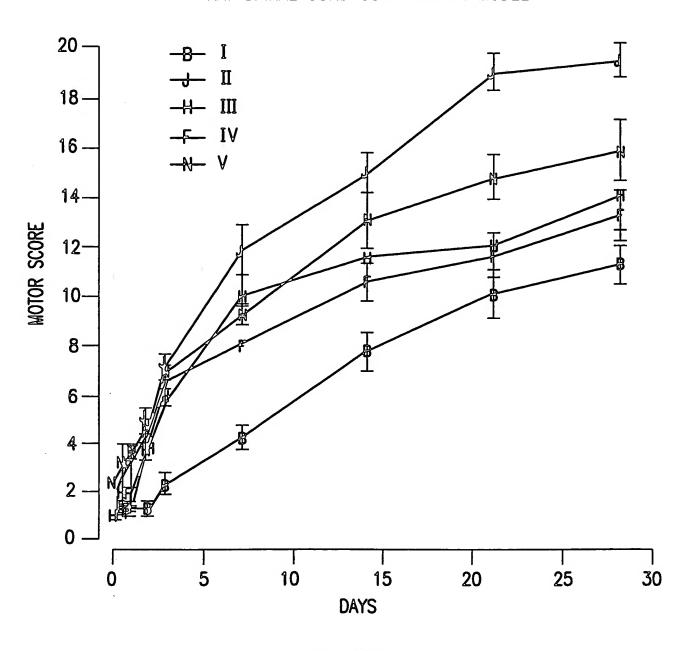
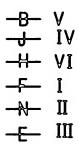


FIG.22



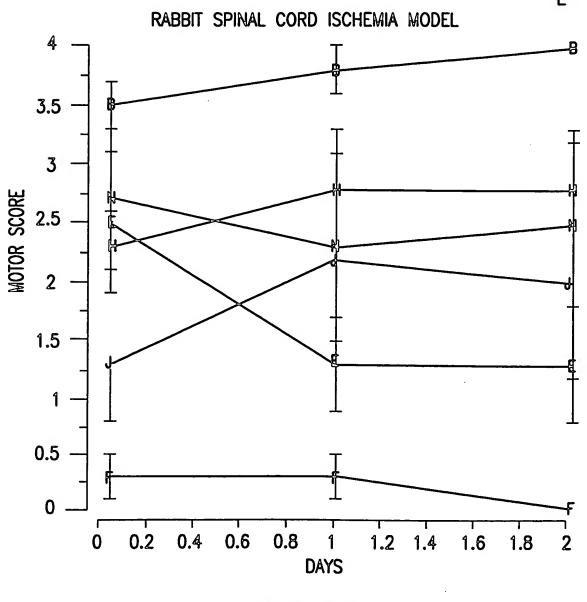


FIG.23

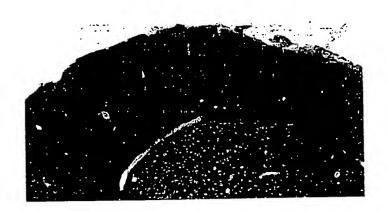


FIG.24A

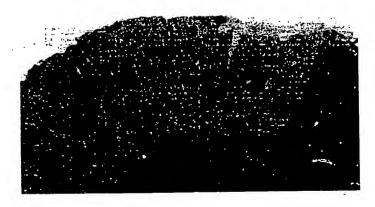


FIG.24B



FIG.24C

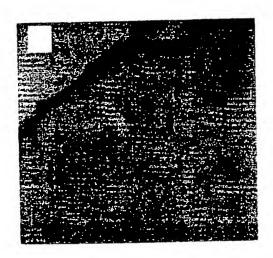


FIG.25A

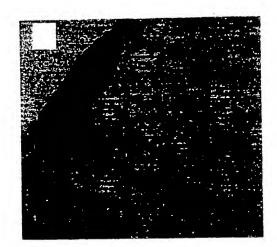
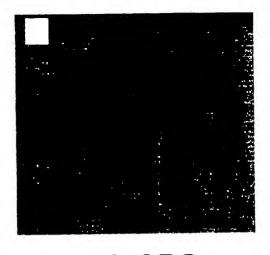


FIG.25B



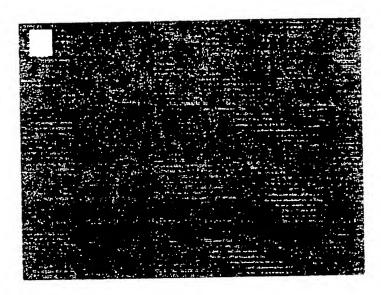


FIG.26A

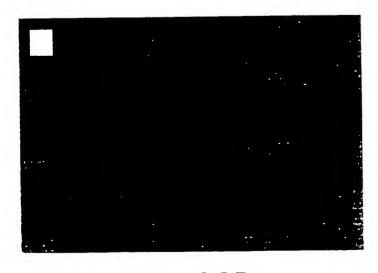


FIG.26B

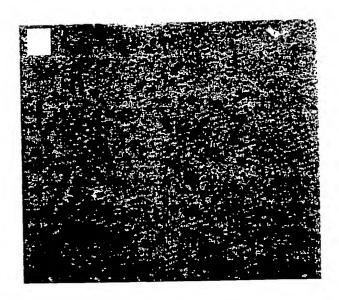


FIG.27A



FIG.27B

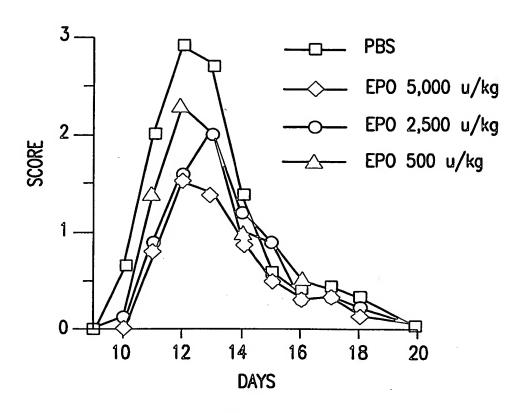


FIG.28

Docket No.: 10165-022-999
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Inventor(s): Nielsen et al.
Title: Recombinant tissue protective cytokines and

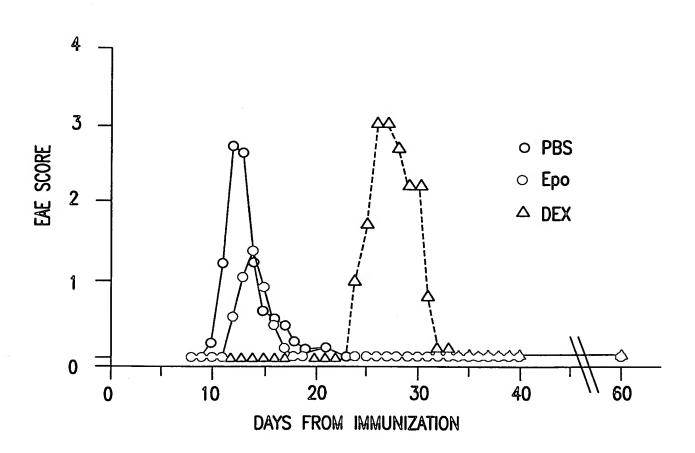
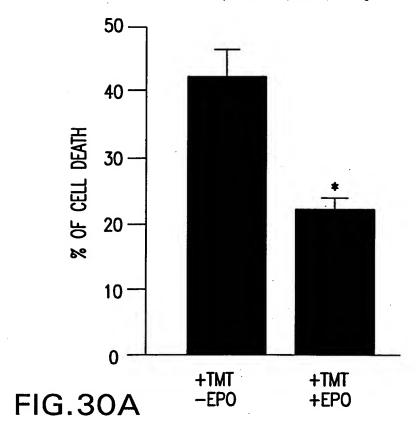
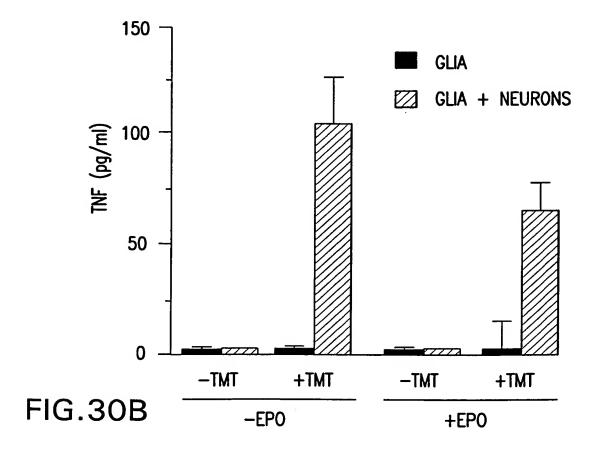


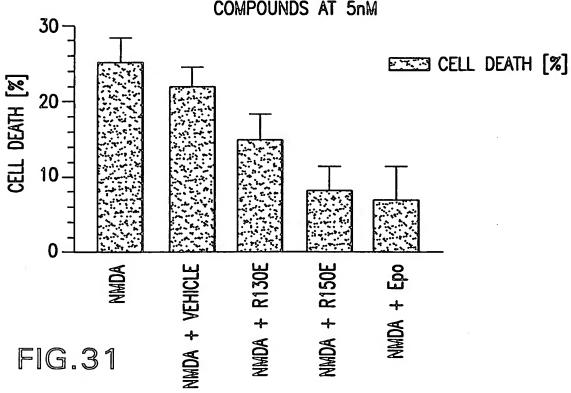
FIG.29

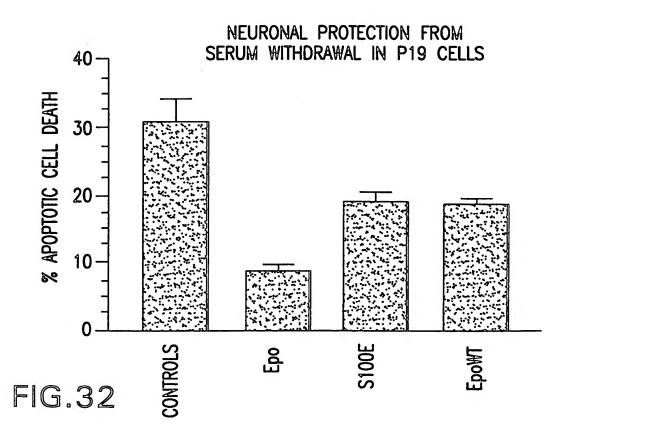


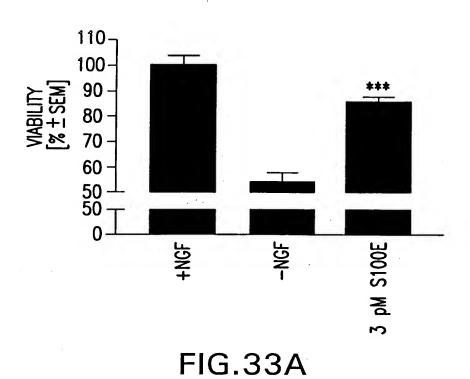


Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

NMDA INDUCED CELL DEATH IN PRIMARY HIPPOCAMPAL NEURONS COMPOUNDS AT 5nM







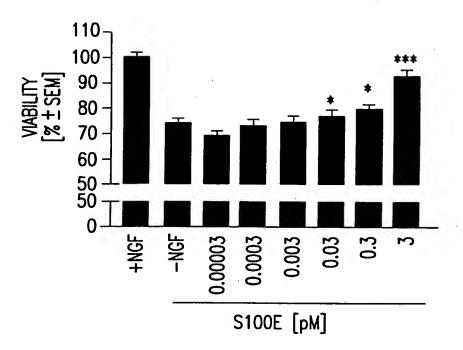


FIG.33B

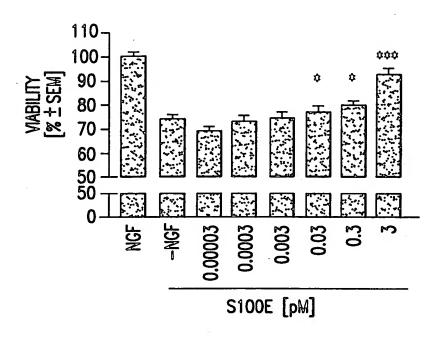
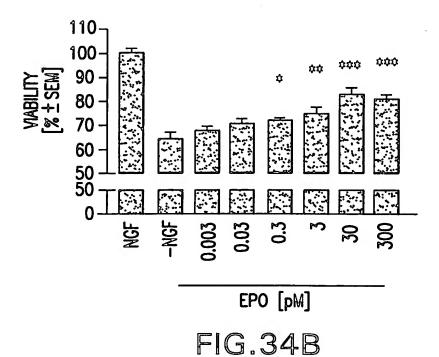


FIG.34A



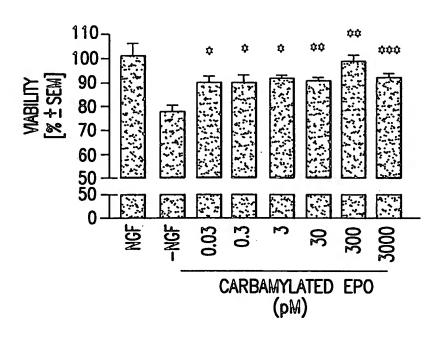
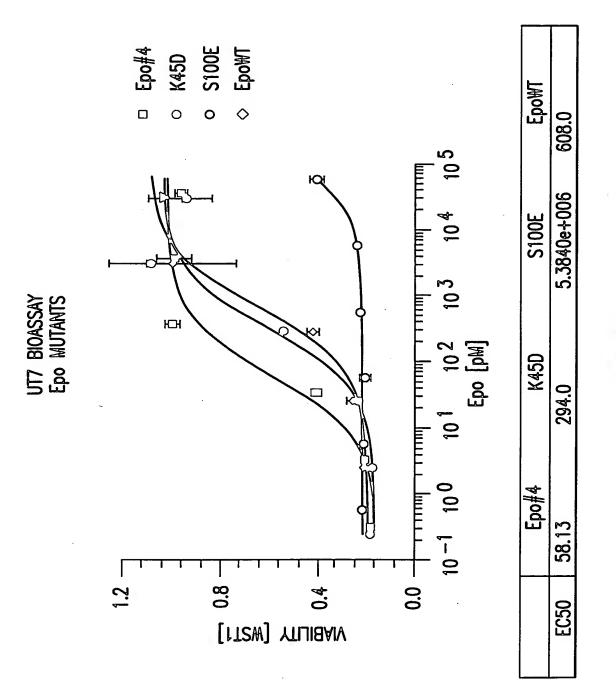
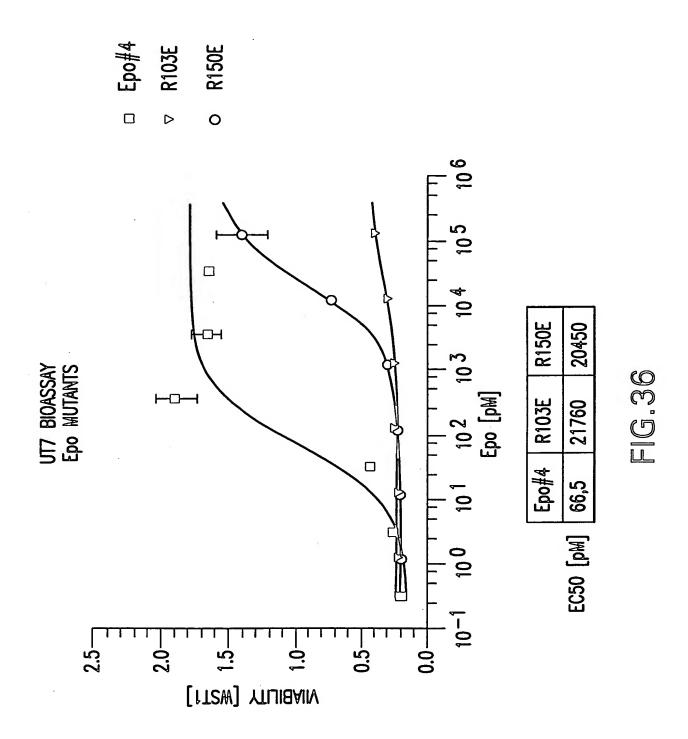
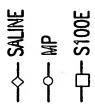
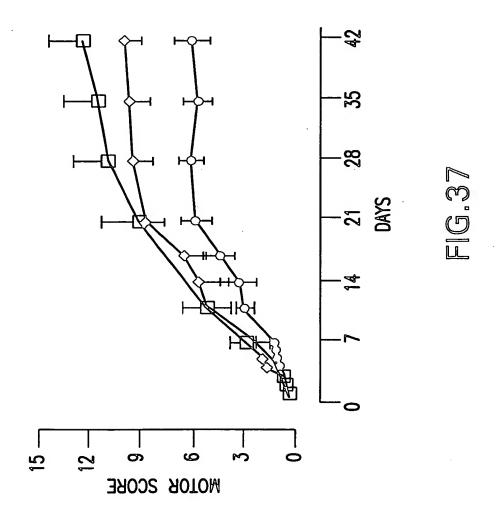


FIG.34C









R103E R150E S100E S100E/K45D SALINE **p<0.01; *p<0.05 VERSUS SALINE **EPO** <u>ڪ</u> ض INJURED EYE b-wave latency (Relative to Uninjured)

Docket No.: 10165-022-999 Serial No.: 10/612,665 Inventor(s): Nielsen et al. Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs